#### ALUMINUM COMPANY OF AMERICA

ALCOA BUILDING

FATTSBURGH, PENNSYLVANIA 15219

LEGAL DEPARTMENT

1983 February 28



Mr. Andrew C. Praschak
United States Environmental Protection Agency
General Enforcement Branch
Region II
26 Federal Plaza
New York, NY 10278

Re: Supplemental Response to Request for Information from Alcoa Facility at Massena, New York

Dear Mr. Praschak:

Enclosed is the final set of documents in response to your Request for Information concerning our Massena facility. This set of documents supplements our response of 14 January 1983 and completes our review of the relevant documents. I therefore also enclose the Certification of Answers to Request for Information signed by Dennis M. Falls, Massena Operations Manager, and Philip F. Woodward, Massena Environmental Control Superintendent.

I have numbered the enclosed documents starting with number 49 and ending with number 77. Documents numbered 1 to 48 were sent to you with our 14 January 1983 response. A list of the enclosed documents is attached.

Where necessary, I have updated the summary of relevant information provided in response to each request. Because many of the documents merely support or amplify the information we have already supplied, I have refrained from repeating this information in the summary. The list of documents relevant to each request has also been updated.

Request 1

Response: In December of 1979, it was proposed that a formal record-keeping procedure be developed to account for the disposal of waste oils (Document #60). The necessity of establishing such a procedure suggests a lack of formal record-keeping concerning waste oil disposal prior to this time.

Responsive documents: #(s) 49, 50, 51, 52, 53, 54, 55, 56, 59 and 60.



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#### Request 3

Response: Information from Massena Operations representatives suggests that the number of capacitors in service in 1982 may not be representative of the 1950 to 1979 time frame. The number of capacitors in use was greatly increased two or three times due to the changes that occurred in plant operations and equipment during the 1970's. It is impossible, however, to determine precisely in our records what is a replacement and what is an addition to the capacitors in service. The 1982 figures, therefore, would actually represent the highest number of capacitors in service during the period 1950 to 1979.

Responsive documents: #(s) 57, 65, 66, 67, 68 and 69.

#### Requests 4 and 5

Response: We have been unable to precisely determine from our records the source of the information referred to in Requests 4 and 5.

Responsive documents: #(s) 57, 65, 66, 67, 68 and 69.

#### Request 6

Response: In December of 1978, a formal system of record-keeping was established for PCB material (Document #59) in accordance with the PCB Marking, Storage and Disposal Rules. No formal records of this information apparently were kept prior to this time.

Responsive documents: #(s) 57, 58, 59, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75 and 76.

#### Request 7

Response: We stated in our 14 January 1983 response that burning of waste oils in the boilers was discontinued after 1972. There is one exception to this rule as waste transformer oil has been burned in the Massena Operation's boilers since 1972. No records were kept of the volume of oil burned or the date of incineration. To the best of our knowledge no waste transformer oil was burned at the Massena Operations during 1978 or 1979.

We have attached gate log sheets that have entries reflecting the presence of an oil reclamation company on site. We have reviewed all of the available gate logs for the Massena Operations, which includes the following dates:

12/16/58 to 12/27/63 10/01/76 to 12/31/79

Mr. Andrew C. Praschak 1983 February 28 Page 3

Only those relevant log sheets have been reproduced.

Responsive documents: #(s) 50, 53 and 77.

Request 8

Responsive documents: #(s) 59, 53 and 77.

Request 10

Responsive documents: #(s) 53 and 77.

Request 11

Responsive documents: #(s) 53 and 77.

Request 12

Responsive documents #(s) 53, 57, 58, 70, 71, 72, 73, 74, 75 and 76.

Sincerely yours,

Lawrence V. Castner

Attorney

LVC:pd

Attachments

### LIST OF DOCUMENTS ENCLOSED

- #49 1968 Letter re: Solid Waste Disposal.
- #50 1977 New York State Hazardous Waste Survey.
- #51 1973 O'Brien and Geer Engineers, Inc. Study, lettered a
- #52 1971 St. Lawrence County Refuse Disposal Study.
- #53 1980 January Massena Environmental Steering Committee Report.
- #54 1972 Industrial Liquid and Solid Waste Survey.
- #55 1978 Correspondence re: Soluble Oil to Dump, lettered a
- #56 1977 Massena Catalog of Classification of Lubricants.
- #57 1979 PCB Records.
- #58 1980 Letter re: PCB Fluids.
- #59 1978 Inter-Office Memo re: PCB Orders.
- #60 1979 Letter re: Disposal of Oils, Oily Wastes and Liquids and Sludge from Caustic Dip.
- #61 1957 Letter re: Used Transformer Oil.
- #62 1960 Memo and supporting documents re: Loading 12 MVA Power Transformer TB-27 for Shipment to Yadkin, S.O. #17912,
- #63 1981 Letter re: Transformer Oil Storage.
- #64 1975 Letter re: Disposal of Polychlorinated Biphenyls.
- #65 1978 Correspondence re: Proposal to Dispose of Spent Capacitors through Jones Chemical, letered a, b and c.
- #66 1979 to 1981 Correspondence re: Proposal to Dispose of PCB-contaminated Material through Chemical and Environmental Conservation Systems International, Inc. (CECOS) lettered a, b, c, d, e and f.
- #67 Unsigned undated notes re: Disposal of PCB-contaminated Material, lettered a, b, c and d.
- #68 Purchase order and supporting documents for 01 May 1980 shipment of PCB-contaminated material to CECOS, lettered a, b, c and d.

- #69 Purchase order and supporting documents for 15 October 1980 shipment of PCB-contaminated material to CECOS, lettered a, b, c, d, e and f.
- #70 Miscellaneous shipping order and supporting document for 15 July 1976 shipment of hydraulic fluid to Swope Oil.
- #71 Miscellaneous shipping order and supporting document for 19 May 1977 shipment of hydraulic fluid to Swope Oil.
- #72 Miscellaneous shipping order and supporting document for 20 May 1977 shipment of hydraulic fluid to Swope Oil.
- #73 Miscellaneous shipping order and supporting document for 26 May 1977 shipment of hydraulic fluid to Swope Oil.
- #74 Undated unsigned notes re: Soluble Oil.
- #75 Undated unsigned notes re: Hydraulic Fluid.
- #76 1978 and 1979 correspondence re: Storage of Contaminated Materials, lettered a, b and c.
- #77 Massena Daily Gate and Visitor Register, various dates.

## CERTIFICATION OF ANSWERS TO REQUEST FOR INFORMATION

I certify that the foregoing answers to the EPA Request for Information are true, complete, and accurate to the best of my information and belief and that any documents submitted herewith are true, complete, and authentic to the best of my knowledge and belief.

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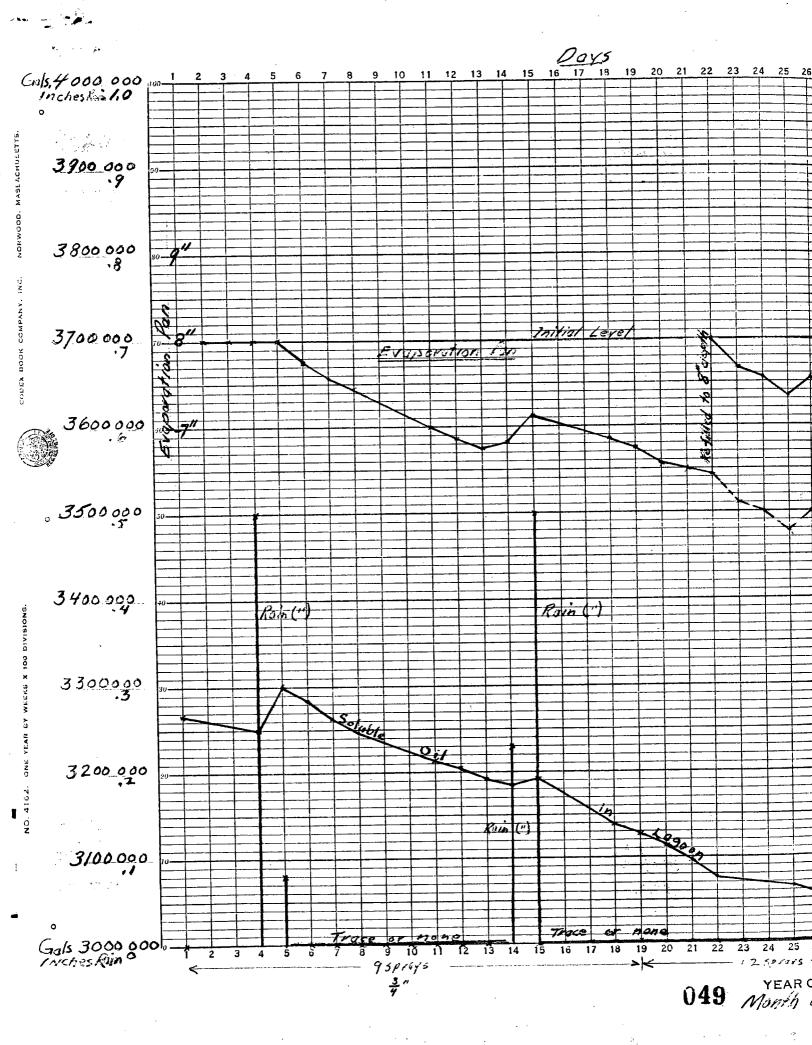
Operations Manager

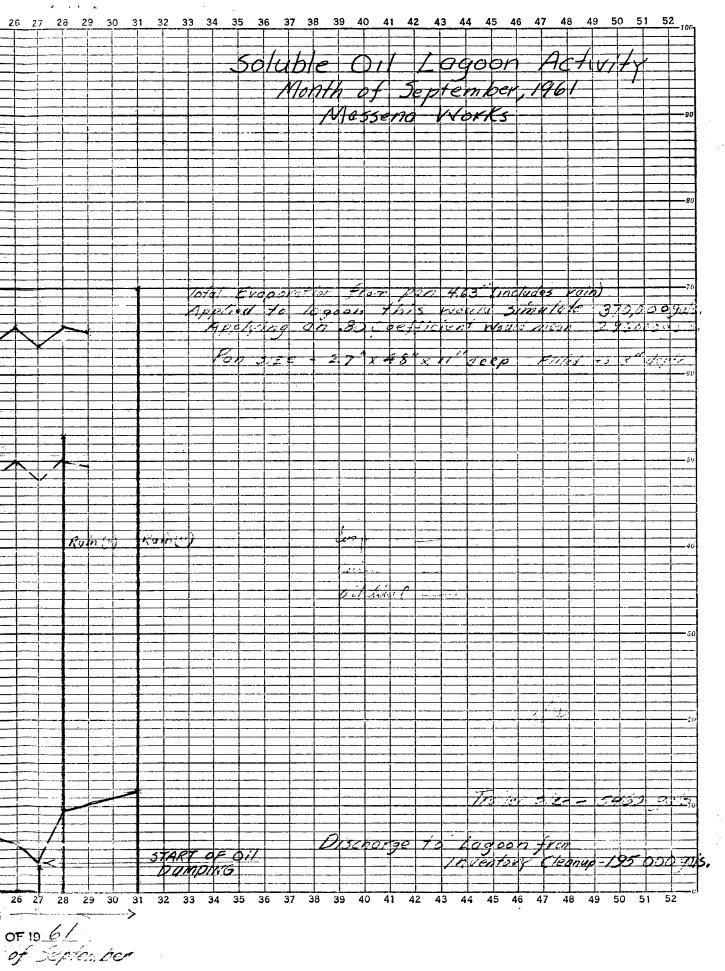
SIGNATURE OF PERSON SIGNING

PHILIP F. WOODWARD

Environmental Control Superintendent

SIGNATURE OF PERSON SIGNING





(3) 4/24/59 - 11/2/59 - on file in loss appene

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15,833,650 our BTU market in med ail 16,667,000 - 833,350 = 15,833,650 # auster Heat necessary & response Water /# (212-10) 18T4 + .47 BTU (600- 212) + 970 BT4 14 2 1 183 +970 = 1295 BTU/# H28 2050000000 15,833,650 × 1295: BTU for H20 15 833 650 000 874 in oil 4 666 350 000 Total BTUs mealed. Coal @ 13700 BTU/# x 803 efficing = 1096 0 BTU/= 466635000 = 427000 # Gafmedet

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to the pater and for every access by the alternate proposals with the same end result the have been estimated for comparation proposes. The seems very similar plan moult be to substitute 2-1000 gol. storge tanks for the tankers at # 2 4 # 3 Briles Houses, using the 2000 gol story at a lafre dul using our present trousport tanker as a supplier. a third proposed would entit installing a helow fregging level line from the logom to # 1 Briles House (2000 gal. land) and consume all the ail in of Bailers. le lumers canelle used in the roll months and 2 in the warm months. This repaidly roughly totals the previous acheurs. In the event of above normal build up of vil occurred emetron, an additions motollation could be made for temporory use at the other Bilestowns. The prosible additional coil is not restuled in the estimat.

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to the cuts of sectors speak state.

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- 2. Boluble ofl, so sprayed buts the bottler, to 955 meter and 55 meter soluble ofly ("Trank" soluble ofly in maker).

  Consumed to bare approximately the same density on maker).
- 3. Bullet afficions arenages approximately 19. 17 is
- b. The heat content of coal, as strong everages 13,790.

  B.T.U. per pound.

Calculations are as follows:

- 1. West content of "man" soluble oil per galles of ciluted soluble all a
  - I ple a \$430 January and Mark Street, and Street,
- - 1 ML. 8.13 Et. M .59 (1697.1-40.06) 9,963.4 B.7.8.
- 3. Not best regulated a 9,963.4 7,938 ... 2,049.4 E.F.U.
- The set on 1000 costs of \$1 Botler Bonne, coal cost por pound a \$200,500 - 0.0000 masses.

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5. Coal required per gallon of diluted colubie oil -

2,049, 8 13,120 x . 1937 . . 1984 154.

6. Cook per gallon of diluted soluble off w

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D. J. BUTTO

DIE: CH

to to Reserve. L.A.

L.H. Miles B.T.O'Bulll

J.J. Hockillian

J.D. Smeker, Att: H. F. Swith - Pan. Office

Mese chech Twenty for oct. 25, 1961 F.

#### DISPOSAL OF WASTE SOLUBLE OILS AT MASSENA

The waste soluble oils and tramp lubricating oils resulting from the operation of the various rolling mills at Massena Works' Fabricating Division cause a serious disposal problem. For many years these oils were discharged directly by sewer to the Grasse River but with the shutdown of the Power Canal several years ago the consequent lowering of the flow of the Grasse and its transition from a fast flowing river to a slow quiet stream necessitated the cessation of such dumping.

As a temporary measure, an artificial pond was constructed of earth to contain these oils in an area North of the Fabricating Plant. It is a rectangular shaped reservoir of 115,000 sq. ft. surface area, with a sloping bottom of from 2' to 5' depth, capable of containing 3,400,000 gallons of liquid. Accurate records of the material discharged into the pond are not maintained but from available histories we can anticipate an annual dump in the neighborhood of 1,300,000 gallons of waste oils plus up to another 1,000,000 gallons of waste wash water from the mills' clean-up programs. The oil content of the waste as brought to the lagoon is from 3% to 15% depending on rolling practice, but when this is introduced to the pond with the accompanying wash water and the rainfall accumulation already there, we generally find the concentration of oil resulting to be under 1%, and still too strong the office of the pond with the accompanying wash water and the rainfall accumulation already there, we generally find the concentration of oil resulting to be under 1%, and still too strong the office of the pond level, another method has had to be developed to remove the excess.

Early in the summer of 1961, an installation was made at #1 Boiler House, whereby this pond solution could be introduced over the fire beds of two of the stoker fire/coal burning boilers. The solution is pumped through two atomizing spray nozzles at each boiler. During the month of September 1961, the operation was closely watched and the rate of disposal was found to be 60,000 gallons per nozzle per month or 120,000 gallons per month per boiler. Three months' trial burning has not brought any change in boiler condition. No firing difficulties have been encountered and after the

solution is delivered to the boiler house, no extra labor is involved in the operation.

By drawing our requirements from the clean end of the lagoon, no trouble has been experienced from sludge pickup.

In September the lagoon was closely watched and it was found that 280,000 gallons of the solution disappeared due to surface evaporation. It was also observed that through the use of twelve spray nozzles installed above, the pond surface and spraying at the rate of 70,000 gallons daily, an additional 54,000 gallons was evaporated during the month.

\$280. This includes pumping, trucking and an item to cover the cost of extra coal consumed. The main cost of pumping for the sprays is \$15.00 per month for electricity. Last year a chemical treatment plant was operated for a time during which trial period 240,000 gallons of solution was disposed of. Utilizing an alumann solution under air pressure, followed by a quick release of this pressure, the plant was partially successful in that it released an effluent containing only 100 P.P.M. of oil. It did, however, leave a waste product of oil and alum in the form of a flow which defied the usual methods of destriction. The cost of treatment by this method was rather high, initially being \$3,300 for 100,000 gallons including equipment installation costs.

At present it is planned to continue the program of spraying the solution into the boilers as late as possible into the cold season and in all probability operations will commence again in the spring. The program of pond spraying to increase evaporation also seems to be a paying proposition and will undoubtedly be continued during the warm months.

#10

January 13, 1964

Lile

FROM: R. A. HALL

A Comment of the Comment

TO: MR. E. L. LETTERMAN

#### REPORT OF SOLUBLE OIL DISPOSAL - 1963

During 1963, the program of spraying soluble oil into the boilers for destruction was continued during the entire twelve months. The total amount of waste consumed was 1,730,425 gals. of which 1,457,425 gals. was consumed at #1 Boiler House and 273,000 gals. consumed at #3 Boiler House. The program was carried on during the entire year at #1 Boilers; at #3 Boilers it was instituted in August and continued until cold weather forced a discontinuance in November, as facilities at #3 Boilers are such that freezeup puts a stop to the practice. The smallest monthly total destroyed was in June with 64,300 gals, low because of an attempt to burn the floating top oils, which ended when we found that plugging of nozzles at the boilers cut our output so much that the practice was discontinued. The greatest monthly total was in January with 305,500 gallons destroyed.

Three lines of sprays with twelve (12) nozzles each were kept in operation through the non-freezing months. A relatively dry, warm summer aided greatly in keeping the pond to a safe level. In mid-summer, an oil reclamation company was contacted which periodically draws off to their tanker the floating tramp oils thus keeping the surface of the pond relatively free of the oil film which tends to prevent surface evaporation of the soluble oils.

The cost of operating the disposal program was as follows: Burden is included in the labor figures.

Oilers - \$ 267.47
Transportation - 2,704.00
Approx. 170 tons Coal - 1,782.34
Total Cost - \$4,753.81
Cost per gallon - \$.0027

0 053

This compares with 1962 cost per gallon of \$.0025.

During the year 60,763 gallons of soluble oils were purchased by the mills and used up in solutions varying from 3% to 15%. In addition 102,422 gallons of other oils were purchased and used in the plant, and it can only be assumed that the majority of these oils, as spent or contaminated, found their way to the pond.

R. A. HALL

RAH: jmd

April 26, 1965

#### RE: REPORT OF SOLUBLE OIL DISPOSAL - 1964

Again, as in 1963, the program of spraying soluble oil into the boilers for destruction was continued during the entire year. During the month of June, during the strike, the consumption was considerably lower than for the other months. Total consumption was 1,847,500 gallons of which 499,000 gallons were burned at #3 Boiler House and 1,348,500 gallons were burned at #1 Boiler House. The largest monthly total was in September, 214,500 gallons; the lowest was June, the strike month with 32,500 gallons.

Three lines of sprays with 12 nozzles each were kept in operation through the non-freezing months. A dry, warm summer aided in keeping the pond level down. An oil reclamation company kept the floating lube oils from the top of the pond, keeping the surface film to a minimum.

The cost of operating the disposal program was as follows:

Labor & Burden - \$849.00 176 Tons Coal - \$1760.00 Total Cost - \$2609.00 Cost/Gallon - \$.0014

During the year, 5576 gallons of soluble oil were dispersed from stores and used in solutions varying from 3% to 15%. In addition, 91,850 gallons of other oils were purchased and used in the plant. It is assumed most of these oils, as spent or contaminated found their way to the lagoon.

R. A. HALL

RAH/bjs

Anti: 41,800 galo. of floating ails were removed from the surface of logon by the ail redometion company.

TO: MR. D. R. LITTLE

FROM: R. A. HALL

March 24, 1966

#### RE: REPORT OF SOLUBLE OIL DISPOSAL - 1965

In 1965, the usual program of spraying lagooned soluble oil into the boilers was continued throughout the entire year. Total destruction was 1,796,250 gallons of which 1,289,250 gallons were destroyed at #1 Boiler House and 567,000 gallons were destroyed at #3 Boiler House.

As in other years, three lines of sprays were operated thru the non-freezing months, to accelerate evaporation of the pond. An oil reclamation company removed some of the floating tramp oils early in the season but this practice was discontinued when the company which had been doing this work discontinued business. We should attempt to find a similar company in the area which would continue this practice as we have not been able to handle these oils in our spray system.

The cost of operating the disposal program was as follows:

Labor and Burden Charged	\$ 201.69
161 Tons Coal	1605.00
Trucking costs - 276 trips	2020.00
	\$3826.69

Cost/gallon

\$ .0021

During the year 76,141 gallons of soluble oil were dispersed from stores and used in the various mills in solutions from 3 to 15%. In addition 115,752 gallons of other oils were purchased and used in the plant. Our assumption is that the most of these oils, as spent or contaminated, found their way to the lagoon.

At the end of the year we appeared to be keeping the lagoon at a safe, low level.

R. A. HALL

RAH/bjs

January 24, 1967

#### 1966 REPORT ON DISPOSAL OF SOLUBLE OIL

In the year 1966, the program of spraying soluble oil into the boilers was continued. Total destruction was 1,085,500 gallons of which 916,500 gallons was destroyed at #1 Boiler House and 169,000 gallons destroyed at #3 Boiler House. This does not compare favorably with the 1965 season when a total of 1,796,250 gallons was destroyed, 1,289,250 at #1 and 567,000 at #3. As the year closed out, the smaller consumption was much in evidence in the pond, as the level is nearing the danger point. It was necessary to raise the level of the bank in one area to prevent spilling over.

At present it is impossible to use the system of disposal in the freezing months at #3 Poiler House as the oils are stored in the tanker parked outside the boiler house. A program is now underway to install a disposal system at #2 Boiler House so that the program can be continued there in the winter months as well as any summer months the boilers are in operation.

The three lines of sprays were operated thruout the non-freezing months to aid in disposal by additional evaporation. An oil reclamation company skimmed an estimated quantity of one hundred thousand gallons of floating tramp oils from the surface and our understanding was that this material was sprayed on secondary (or lower rated) dirt roads to stabilize the soils and aid in dust abatement.

The cost of operating the disposal program was as follows:

Labor & Burden charged	\$ 877.02 \$1,120.00
Cost of Extra Coal Trucking Cost (165 Trips)	\$1,220.00
	 \$1,220.00 \$3,217.02

Cost per Gallon

\$0.0029

During the year 103,600 gallons of soluble cils were dispersed from stores and used in the various mills in solutions from three to 15%. In addition 277,760 gallons of other oils were purchased and used in the plant and our assumption is that most of these oils as spent or contaminated found their way to the lagoon.

It appears that we will have to increase our consumption rate via the boilers to keep the lagoon level down to a point where the danger from overflow is nil.

#### R. A. HALL

RAH/bsw

Cc: Messrs. J. H. Pierce

D. J. Hitton

File(3)

J. H. Lavine B. M. Watson 056

FROM: R. A. KALL

TO: MR. G. H. BLAKE

January 18, 1968

14

#### RE: 1967 REPORT ON DISPOSAL OF SOLUBLE OIL

The program of spraying soluble oil into the boilers at the 3 plants was continued as usual in 1967. Total destruction for the year was 1,598,000 gallons of which 1,020,500 gallons was destroyed at #1 Boiler House, 487,500 gallons at #2 Boiler House and 90,000 gallons at #3 Boiler House. This represents a considerable incresse over that destroyed in 1966 when 1,085,000 gallons was consumed. The pend level at freezeup in 1967 was at a safe level for the winter and we are enjoying a favorable amount of freeboard.

Consumption can continue at \$1 and \$2 Boiler Houses throughout the winter months because the oil supply tanks are located underground at \$1 and indoors at \$2. At \$3, consumption is only through the non-freezing months as the oil is supplied directly from the tanker to the boilers at this location.

Three lines of sprays were operated throughout the non-freezing months to aid in disposal by increasing the evaporation from the surface of the lagoon. An oil reclamation company skimmed periodically all the floating oils which appeared and it is our understanding, this oil is used as a soil stabilizer and for dust abatement on secondary roads.

The cost of operating the disposal program was as follows:

Labor and Burden (R&M of Plant)	\$1706.50
Cost of extra coil to evaporate	1540.00
1,598,00 gals. soluble oil	
Trucking Cost (246 trips)	1968.00
•	\$5214.50
Cost per gallon	.0032

During the year, 64,569 gallons of soluble oils were dispersed from stores and used in the various mills in solutions from 3 to 15%. In addition, 232,956 gallons of other oils were purchased and used in the plants and our assumption is that most of these spent or contaminated oils found their way to the lagoon.

In 1968, we will have to rebuild our spray system, which was not operating near its capacity in 1967.

Cc: Messrs. J. H. Pierce

J. H. Lavine

B. M. Watson

File Copy

FROM: R. A. HALL TO: MR. G. H. BLAKE

January 21, 1969

#### RE: 1968 REPORT ON DISPOSAL OF SOLUBLE OIL

During the year 1968, 1,154,000 gallons of soluble oil and contaminated water was destroyed by spraying into the Boilers. Over 700,000 gallons were disposed of at \$1 Boiler House and the remaining 400,000 was divided evenly between \$2 and \$3 Boiler Houses. During the two strike months and after for the months of August and September, no oil was destroyed so that the total for the year was about 450,000 gallons less than for 1967 when 1,598,000 gallons was the total destroyed. Consequently we went into the 1968-1969 winter season with a dangerously high level in the lagoon. At this time, burning should be increased or we may be in trouble (from overflowing) during the spring breakup and rains.

There were no changes in method of consumption; #1 and #2 Boiler Houses can consume oil all year around but #3 can handle it during non-freezing months only.

The sprays were operated during the summer and the oil reclamation company skimmed floating oils now and then.

4.1

The cost of operating for the season was as follows:

()

Labor & Burden (R&M)	\$3,066
Cost of extra cost to evaporate 1,154,000 gallons Trucking	1,170 790 \$5,026
Cost per sellon	-0043

During the year 73,183 gallons of soluble oil were disposed from stores and used in the various mills in solution form. In addition 192,732 gallons of other oils were purchased and used in the plants. Presumably, much of these oils found their way to the lagoon.

The Electrical Department has in their schedule an R&M job for the electrical system supplying the pump and heaters at the pump house. This will probably be done in the spring after the freeze up period is past.

R. A. HALL

RAH: lmp

Cc: Messrs. J.H. Pierce

J.H. Lavine

B.M. Watson

W.D. Atkinson

File Copy

FROM: R. A. HALL

TO: MR. G. H. BLAKE

January 16, 1970

#### RE: 1969 REPORT ON DISPOSAL OF SOLUBLE OIL

In 1969 1,124,500 gallons of soluble oil and contaminated water was destroyed at the three boiler houses by burning or evaporation in the fires. In addition, 455,000 gallons were disposed of by placement in a hole in the ground. This last method was found necessary to prevent overflow of the lagoon. Although this stop- gap method of getting rid of a surplus did the job, it is not believed to be a desirable method as it introduces oily wastes into waste our ground water.

During the summer of 1969 the dike walls were raised by adding more earth to the tops of the dikes. A new lagoon was constructed at the east end of the main lagoon for storage of heavy and tramp lubricating oils. However, even with these changes and additions, we are operating the lagoon at a dangerously high level. Unless more oil is disposed of at the boiler houses, we will have to consider other alternate methods. However, chemical treatment has been found to be higher priced and larger lagoons are not an answer as they, too, will soon fill up.

Revisions to the sprays for evaporation speedup were under way when winter closed in, and this system will be completed and made operative in the spring. A storage tank for 6,000 gallons of oil was installed at No. 3 Boiler House so that burning could continue in the colder months. Finally, the pump house was repaired and the pumping system at the lagoon was overhauled in the fall months. New electrics were installed to replace the old weathered system.

During the warm months the Pierce Company salvaged and removed the floating tramp oils from the lagoon. Cost of operation for the season is as follows:

Labor and Burden (R & M) \$2,294

Cost of coal to evaporate 1,124,500 gallons of water and oil (Coal @ \$11.51/ton)

Trucking 854

\$4,368

Cost per gallon to destroy - .0028

RAH: 1b

R. A. HALL CC: Messrs. J. H. Pierce

C. P. Fletcher

B. M. Watson - 31

W. D. Atkinson

059

# Solublé Oil Disposal

				Tanker	Cop. 63	000013.
J.O. #	Month	Total Louds	Total	Boiler F	touse No.	# 3
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60

Sh. Oil - 2750 and 2000



13425 / 200 13425

21,506 gallons Con
-6000 dung 79

30,0,000 X . 02 = 6000 gallons





## OIL LAGOON

SURFACE AREA 600×200 = 120,000 SQFT 2.75 Acres

YEARLY DUMP - 2,700,000 GALS

= 2.7 MG = 360,000 cu.ft.

AV DEPTH = 360,000 = 3 fT/4R DUMPED IN LAGOON

	Soc. OIL	Other Olig
1967	64,569	232,956
1968	73,183	192,732
1969	57,907	141, 171
1970	37,450	98,245

**6**3

Garagara Coda

## MRISON MERNIUS (E. MAZIANZ ORFICE) 2680

QUESTIONS ON OR LAGORN SYSTEM

Socurce Oil - 40,000 Golfon. To MENT SOL. OIL BUSINGER. OTHER OILS - 8,000 GAL/MONTH

OIL SCAVENGARS - PIRACE - NO CHE. OR PAY - CONTRACT UNTIL AVE. 74

OSWEGO - PAYING 4 4/6M. FOR INCINANTIA FURL

100-154, M ATY/GAL

OIL FILTRATION SYSTEMS BRING UPGRADED TO REDUCE BAT. OF OIL CHANGES.

SOLVALE OIL \$20 BEING BLED INTO SECONDARY CAGOON AT PAINT 10 GPM

2 TANKS BRING SKT-UP - NOT YET INSTALLED

HYDRAULIC OILS - PYDRAUL - 2-TANICS - SENT TO BE RECLAMED & BROWNT BACK 1973 - 108 Drums DUMPED OUT & FILTERED (YOTAL) PU DRUMS BRING SENT TO MISSOURI FOR MARCHIMING

664

FROM:

R. K. BROWN

To: MR. G. H. BLAKE nosreseud-March 17, 1969

#### WASTE OIL LAGOON

Early in February, the oil lagoon was at a dangerously high level and seepage had started into the sewage oxidation pond. From February 11 to March 14, approximately 500,000 gallons were removed and dumped into an abandoned gravel pit on the hill, plus the normal amount burned in the Boiler Houses; reducing the oil lagoon to a safe level.

In addition, straight waste oils are being stored in two tanks behind Bldg. 73 011 House for removal by the oil reclamation company. We are also planning to install a 6,000-gallon tank at #3 Boiler House to increase our disposal capability for soluble oil.

A check will be made on the feasibility of increasing our evaporating sprays, increasing the capacity of the lagoon by dredging, or other possible steps to prevent a reoccurrence of this problem next winter.

R. K. BROWN

RKB: CM

PUR HASE URDER "ACC TANCE COPY" PROMISE A DATE MATERIAL REQUIRED AUTH. NUMBER PURCHASE ORDER NUMBER P.O. DATE AS REQUIRED MA 0551 10 PA OLAUG74 ВK VENDOR NUMBER **SELLER PLEASE NOTE** 682325A 00 KEN PEIRCE OIL SERVICE INVOICES RENDERED AGAINST THIS ORDER MUST BE IN CONFORMANCE P.O. BOX 96 MOIRA, WITH INSTRUCTIONS PRINTED ON THE BACK HEREOF. N.Y. 12951 SHIPPING PAPERS ALL SHIPMENTS, CORRESPONDENCE INVOICES AND MUST BE IDENTIFIED WITH THE PUR-€ SHIP TO CHASE ORDER AND VENDOR NUMBERS. ALUMINUM COMPANY OF AMERICA 055110 MASSENA NEW YORK 13662 INVOICE IN DUPLICATE TO ABOVE ADDRESS. SHOW VENDOR CODE MAIL ATTENTION ACCOUNTS PAYABLE. AND ORDER NO. F.O.B. NET 30 DAYS **DELIVERED** VENDORS TRUCK(SD) - ACCOUNT CODE **PRICE & UNIT** ITEM DESCRIPTION AND SPECIFICATIONS QUANTITY MEAS. NO. DISTRIBUTI VE FURNISH ALL LABOR, EQUIPMENT, NO CHARGE INSURANCE AND ALL OTHER THINGS NECESSARY TO COLLECT SUCH QUANTITIES OF USED LUBRICANTS FROM AREAS AS DESIGNATED BY ALCOA'S ENGINEERING DEPARTMENT DURING THE PERIOD FROM AUGUST 1, 1974 THRU JULY 31, 1975. ALCOA WILL BE CHARGED \$ .02/GAL. FOR ALL USED LUBRICANTS COLLECTED FROM AUGUST 1, 1974 THROUGH APRIL 30,1975. ALL OTHER TIMES WILL BE AT NO EXPENSE TO ALCOA. SALVAGED LUBRICANTS TO BECOME THE PROPERTY OF THE CONTRACTOR AT NO CHARGE IN EXCHANGE FOR CONTRACTOR'S SERVICES AT NO CHARGE. CLEARANCE MUST BE OBTAINED FROM BUYERS NOTE PURCHASING DEPT. BEFORE ANY WORK IS STARTED.

NOTE: In accepting this order it is understood the Seller agrees to the terms and conditions shown above and printed on the back hereof. The Company hereby objects to any conflicting or additional terms or conditions.

CONTINUED ON PAGE 2 -

ALUMINUM COMPANY OF AMERICA

LEN B. NEUBERT, Vice President, Purchasing, PITTSBURGH, PA. 15219

G.H. DUCKWORTH, DIST. PURCHASING AGENT

W.W. HAMI LTON, BUYER

-066

FM/FT

DO NOT CHARGE NEW YORK OR ST. LAWRENCE COUNTY SALES OR USE TAX AS WE ARE AUTHORIZED TO PAY TAX DIRECTLY UNDER DIRECT PAYMENT PERMIT NO. 000016. OUR EMPLOYER'S IDENTIFICATION NO. IS 25-0317820

ALUMINUM COMPANY OF AMERICA

LEN B. NEUBERT, Vice President, Purchasing, PITTSBURGH, PA. 15219

G. H. DUCKWORTH, DIST. PUR. AGENT

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W.W. HAMILTON

BUYER TEL.NO. (315)764-4376

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CONTINUED OF PAGE 2 -

ALUMINUM COMPANY OF AMERICA

G.H. DUCKWORTH, DIST. PURCHASING AGENT

W.W. HAMI LTON, BUYER

PM/FT

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DO NOT CHARGE NEW YORK OR ST. LAWRENCE COUNTY SALES OR USE TAX AS WE ARE AUTHORIZED TO PAY TAX DIRECTLY UNDER DIRECT PAYMENT PERMIT NO. 000016. OUR EMPLOYER'S IDENTIFICATION NO. IS 25-0317820 ALUMINUM COMPANY OF AMERICA

067

G. H. DUCKWORTH, DIST.PUR.AGENT

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CONTRACTOR

BUYER TEL. NO. (315)764-4373

## PURCHASING DEPARTMENT KL #14

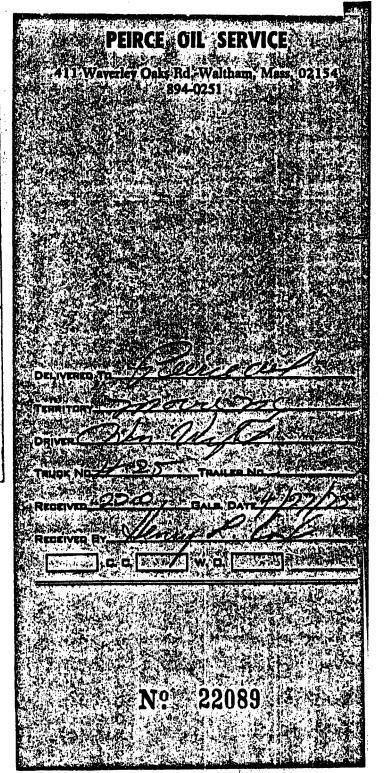
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P.O.# MA) 055 110 PA PEIRCE OIL SERVICE TEL. 668-6782 518-529-7700 Central Square No Ye 13036 Waltham, 78 ats. 0.154 When Merminum Sold to Ede = 682325 A NO Terms: Net Cash 02 22087 COMPLETE 13400 JUN 3 0 1975  $24 \ 569$ 

Peirce Oil-Service
30 Brookfield Rt.
Waltham Mass
Pickup at allowa
Territory Messens
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Pate 3/5/25

# 10001



GOVERNMENT EXHIBIT

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KEN PEIRCE OIL SERVICE P.O. BOX 96 MOIRA, N.Y. 12951

682325A 00

per 0 60 you

511-5297700

SHIP TO

ALUMINUM COMPANY OF AMERICA 058506 MASSENA

MASSENA NEW YORK 13662

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ALUMINUM COMPANY OF AMERICA

G. H. DUCKWORTH, DIST. PURCHASING AGENT

W.W. HAMILTON, BUYER

578 - 529-7700

### 14Ju175

Govt Exhibit #19

Ken Peirce Oil Service P. O. Box 96 Moira, New York 12951

### Re: Blanket Order MA 055110 PA

### Gentlemen:

The captioned blanket order expires July 31, 1975. Please advise if price, terms and all conditions of this order would remain firm as is if we were to extend the expiration date to July 31, 1976.

Very truly yours,

ALUMINUM COMPANY OF AMERICA

Buy

S. So.

W. W. HAMILTON Buyer - Tel.No. (315) 764-4376

WWH/ft

ALCOA **PURCHASE ORDER** "ADCEPTANCE COPY" PURCHASE ORDER NUMBER P.O. DATE BUYER AUTH MUMBER DATE MATERIAL REQUIRED DATE SHIPMENT PROMISED MA 038506 PA 06AUG 75 9日00万 HM AS REQUIRED VENDOR NUMBER SELLER PLEASE NOTE KEN PEIRUE OIL SERVICE 682325A 00 P.O. BOX 96 INVOICES RENDERED AGAINST THIS ORDER MUST BE IN CONFORMANCE MOIRA, N.Y. 12951 WITH INSTRUCTIONS PRINTED ON THE BACK HEREOF. xhibit ALL SHIPMENTS, SHIPPING PAPERS INVOICES AND CORRESPONDENCE MUST BE IDENTIFIED WITH THE PUR-SHIP TO CHASE ORDER AND VENDOR NUMBERS. ALUMINUM COMPANY OF AMERICA 058506 MASSENA NEW YORK 13662 INVOICE IN DUPLICATE TO ABOVE ADDRESS. SHOW VENDOR CODE AND ORDER NO. MAIL ATTENTION ACCOUNTS PAYABLE. VENDORS TRUCK(SD) DELIVERED NET 30 DAYS ITEM UNIT MEAS. QUANTITY DESCRIPTION AND SPECIFICATIONS PRICE & UNIT STORES NUMBER FURNISH ALL LABOR, EQUIPMENT NO CHARGE DISTRI BUTIVE INSURANCE AND ALL OTHER THINGS NECESSARY TO COLLECT SUCH QUANTITIES OF USED LUBRICANTS FROM AREAS AS DESIGNATED BY ALCOA'S ENGINEERING DEPARTMENT DURING THE PERIOD FROM AUGUST 1, 1975 THRU JUIX 31, 1976. ALCOA WILL BE CHARGED \$ .02/GAL. FOR ALL USED LUBRICANTS COLLECTED FROM AUGUST 1, 1975 THROUGH APRIL 30,1976. ALL OTHER TIMES WILL BE AT NO EXPENSE TO ALUOA. SALVAGED LUBRICANTS TO BECOME THE PROPERTY OF THE CONTRACTOR AT NO CHARGE IN EXCHANGE FOR CONTRACTOR'S SERVICES AT NO CHARGE. A Washer Supplied Supplied American NOTE: CLEARANCE MUST BE OBTAINED FROM BUYERS PURCHASING DEPT. BEFORE ANY WORK IS STARTED.

NOTE: In accepting this order it is understood the Seller agrees to the terms and conditions shown above and printed on the back hereof. The Company hereby objects to any conflicting or additional terms or conditions.

CONTINUED ON PAGE 2 -

ALUMINUM COMPANY OF AMERICA
LEN B. NEUBERT, Vice President, Purchasing, PITTSBURGH, PA. 15219

G. H. DUCKWORTH, DIST. PURCHASING AGENT

BY W HAMITTON DIN

W.W. HAMILTON, BUYER

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### PURCHASE ORDER

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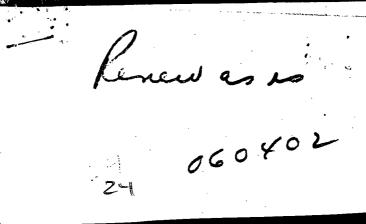
DO NOT CHARGE NEW YORK OR ST. LAWRENCE COUNTY SALES OR USE TAX AS WE ARE AUTHORIZED TO PAY TAX DIRECTLY UNDER DIRECT PAYMENT PERMIT NO. 000016. OUR EMPLOYER'S IDENTIFICATION NO. IS 25-0317820 ALUMINUM COMPANY OF AMERICA
LEN B. NEUBERT, Vice President, Purchasing, PITTSBURGH, PA. 15219

G. H. DUCKWORTH, DIST. PUR. AGENT

BY W Hamilton

W.W. HAMILTON BUYER TEL.NO. (315)764-4376

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DATE MATERIAL REQUIRED AUTH NUMBER BUYER P.O. DATE PURCHASE ORDER NUMBER AS REQUIRED 26-32 HM<sub>3-25</sub> 16小瓜76 5-6 MA 060402, PA-14 VENDOR NUMBER 58-66 KEN PEIRCE OIL SERVICE Typised De MA08035 P.O. BOX 96 MOIRA, N.Y. 12951 SHIP TO ALUMINUM COMPANY OF AMERICA 060402 MASSENA NEW YORK SHOW VENDOR CODE J. FARRELL-73A 13662 INVOICE IN DUPLICATE TO ABOVE ADDRESS. AND ORDER NO. MAIL ATTENTION ACCOUNTS PAYABLE. IN PLANT DELIVERY LOCATION NET 30 DAYS DELIVERED VENDORS TRUCK(SD) 18-27 - ACCOUNT CODE - COMMODITY CODE - STORES NUMBER PRICE & UNIT DESCRIPTION AND SPECIFICATIONS UNIT MEAS. 28.38 QUANTITY 75-77 65-74 25-27 18-24 DISTRIBUTIVE 15-17 NO CHARGE FURNISH ALL LABOR, EQUIPMENT, INSURANCE AND ALL OTHER THINGS NECESSARY TO COLLECT SUCH QUANTITIES OF USED LUBRICANTS FROM AREAS AS DESIGNATED BY ALCOA'S ENGINEERING DEPARTMENT DURING THE PERIOD FROM AUGUST 1, 1976 THRU JULY 31, 1977. TASI ALCOA WILL BE CHARGED \$ .02/GAL. FOR ALL USED LUBRICANTS COLLECTED FROM AUGUST 1, 1976 THROUGH APRIL 30,1977 ALL OTHER TIMES WILL BE AT NO EXPENSE TO ALCOA. SALVAGED LUBRICANTS TO BECOME THE PROPERTY OF THE CONTRACTOR AGO CHARGE IN EXCHANGE FOR CONTRACTOR'S SERVICES AT NO CHARGE. CLEARANCE MUST BE OBTAINED FROM BUYERS NOTE: PURCHASING DEPT. BEFORE ANY WORK IS STARTED. CONTINUED ON PAGE 2 -FT/SR

ALUMINUM COMPANY OF AMERICA

G.H. DUCKWORTH, DIST. PURCHASING AGENT

W.W. HAMILTON, BUYER

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PAGE - 2 -

KEN PEIRCE OIL SERVICE

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Govit Exhibit #23

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DO NOT CHARGE NEW YORK OR ST. LAWRENCE COUNTY SALES OR USE TAX AS WE ARE AUTHORIZED TO PAY TAX DIRECTLY UNDER DIRECT PAYMENT PERMIT NO. 000016. OUR EMPLOYER'S IDENTIFICATION NO. IS 25-0317820 ALUMINUM COMPANY OF AMERICA

G. H. DUCKWORTH, DIST. PUR. AGENT

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W.W. HAMILTON BUYER TEL.NO. (315) 764-4376

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W.W. HAMILTON, BUYER

SF 5302M REV. 10/75

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### Peirce Waste Oil Service

### Collectors of Waste Oils

1200 COMMONWEALTH AVENUE ALLSTON, MASSACHUSETTS 02134 617/739-2200

23 November, 1977

Mr. W. W. Hamilton, Purchasing Department Aluminum Company of America Post Office Box 150 Massena, New York

Dear Mr. Hamilton,

Please be advised that this letter is a formal bid for the removal of waste oils as generated by your facility. This bid is submitted by our Company for purposes of gaining the award of the contract as now being offered by "Alcoa". The contract in question is for the collection of waste liquids as located in your Reclamation Pond at your plant site.

We will pay your Company("Alcoa") at the rate of five cents per gallon for collected usable waste oils. All collections will be preformed by our Company and will be preformed at your designated Reclamation Pond.

Would you please advice me as to the outcome of the award?

Thank you.

yours very truly,

Harry Gold

Mail to be directed to; Box 114 N. Weymouth, Massachusetts 02191

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PARENT OIL COMPANY MOIRA, NEW YORK

October 24, 1977

Aluminum Company of America Massena, New York 13632

Attention: W. W. Hamilton

Gentlemen:

In response to your request for a quotation to remove waste oil from your Alcoa facilities, I am submitting two (2) proposals.

The first proposal being to pay Alcoa a Flat Rate of \$950.00 dollars for the sole right to remove said waste oil from Alcoa's reclamation pond. This amount would cover the period from November 1, 1977 thru November 1, 1978. The above mentioned amount to be paid in two equal installments, 1. falling due 30 days from acceptance of the contract and the second payment six (6) months from said date. The amount and content of said waste oil unknown.

The second proposal is to pay Alcoa \$.05¢ per gallon for all waste oil removed from your premises between November 1, 1977 and November 1, 1978. The amount and content of said waste oil being unknown. This amount (gallons times \$.05¢) to be paid monthly or quaterly.

Awaiting your earliest reply. Thank you.

Sincerely yours,

PARENT OIL COMPANY

Wallace Parent Jr.

WP/at

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MIB

file

## #29

### 1977 October 18

1. Parent Oil, P. O. Box 51, Moira, N. Y. 12957

2. Ken Pierce Oil Service, 30 Brookfield Rd., Waltham, Mass. 02154

### Gentlemen:

Would you please furnish me with a quotation to furnish all labor, equipment, insurance and all other things necessary to remove waste oil from Alcoa's oil reclamation pond. The salvaged oil will become the property of the contractor at the point of removal from our location. Alcoa makes no representation or guarantee as to the quantity available nor the content of the waste oil.

The successful contractor will make an effort to keep the level of waste oil to an agreed upon level and the oil can be removed only during normal working hours.

Your quotation should cover a period from November 1, 1977 thru November 1, 1978. We would appreciate your reply by October 26, 1977.

Very truly yours,

ALUMINUM COMPANY OF AMERICA

W. W. Hamilton Buyer - Tel. No. (315) 764-4376

WWH:njr

N.N.O.O. - Cc H. Burgert - 73A

1977 October 18

#### Gentlemen:

Would you please furnish me with a quotation to furnish all labor, equipment, insurance and all other things necessary to remove waste oil from Alcoa's oil reclamation pond. The salvaged oil will become the property of the contractor at the point of removal from our location. Alcoa makes no representation or guarantee as to the quantity available nor the content of the waste oil.

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Very truly yours,

ALUMINUM COMPANY OF AMERICA

W. W. Hamilton Buyer - Tel. No. (315) 764-4376

WWH:njr

Parent Oil Co.
P. O. Box 51
Moira, N. Y. 12957

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WHEN REMITTING — SEND CHECK TO: 1501 ALCOA BUILDING PITTSBURGH, PA. 15219

SF 1473-4 REV. 0-68 3M 9/73

# ALUMINUM COMPANY. OF AMERICA 1501 - 2AC ALCOA BUILDING PITTSBURGH, PA. 15219



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BUYER - TEL.NO.(315)764-4376

SF 5302C REV. 10/75 BACKER REV. 2/77

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DO NOT CHARGE NEW YORK OR ST. LAWRENCE COUNTY SALES OR USE TAX AS WE ARE AUTHORIZED TO PAY TAX DIRECTLY UNDER DIRECT PAYMENT PERMIT NO. 000016. OUR EMPLOYER'S IDENTIFICATION NO. IS 25-0317820 ALUMINUM COMPANY OF AMERICA

E. R. WERNER, DIST. PUR. AGENT

W. W. HAMILTON BUYER - TEL.NO.(315)764-4376 COPY 2

	ALC	OA	' !A	CCEPTANCE	COPY''		PUR	CHASE	(	JRUER	
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### HOLD HARMLESS AGREEMENT

The undersigned employee/buyer of the Aluminum Company of America acknowledges that the Aluminum Company of America or its subsidiaries (hereinafter called ALCOA) is selling the listed material or equipment AS IS - WHERE IS.

ALCOA MAKES NO WARRANTIES OF ANY KIND, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.

The undersigned employee/buyer is prepared to purchase this material or equipment on the basis that the utilization of this material or equipment will be solely at the risk of the employee/buyer, and the employee/buyer hereby agrees to indemnify ALCOA against all loss, liability and damage resulting from claims brought by injured parties as the result of use of this material.

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E. R. WERNER
DISTRICT PURCHASING AGENT
MASSENA, NEW YORK 13662
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### ALUMINUM COMPANY OF AMERICA

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PITTSBURGH, PA. 15219

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FROM

F. M. SITTIG ENVIRONMENTAL ENGINEERING DIV. ALCOA BUILDING - 2 MR. J. B. WALKER

MASSENA OPERATIONS

June 12, 1972

### RE: INDUSTRIAL LIQUID AND SOLID WASTE SURVEY

Attached is a copy of our completed report for the captioned survey. I thank you and Mr. R. K. Brown for your cooperation and assistance in gathering this information for us.

TO

Section XIII of the report lists five recommendations which we believe should be given serious consideration. We would appreciate hearing from you should you have any questions or comments concerning these items or any other aspect of the report.

A final report will be published at the completion of this companywide survey program comparing the operating expenses for both the liquid and solid waste disposal operations of all the plants surveyed.

3.711 Sitting

F. M. SITTIG

FMS:bsd

Attachment

CC: V. W. Rieke/E. F. Maziarz, Jr. - AB 2 R. K. Brown/R. W. Knapp - Massena

## MASSENA OPERATIONS INDUSTRIAL LIQUID AND SOLID WASTE SURVEY

This survey was conducted during April, 1972 for the purpose of bringing the Environmental Engineering Division up to date on the liquid and solid waste disposal methods employed at Massena Operations as well as determining the costs associated with these operations. The report is in thirteen sections with our present recommendations for future improvements in the final section.

### I. Manufacturing Operations and Contaminants

- A. The principal production operations include primary production of aluminum (SIC3334), fabrication of aluminum wire, rod and bar (SIC3353), bare and insulated aluminum conductor (SIC3357) and production of aluminum conductor accessories (SIC3644). The plant employs about 2800 people.
- B. The main contaminants contributed by these operations are suspended solids, fluorides, oil and phenols.

### II. Plant Personnel

Persons contriluting to this report included Messrs. R. K. Brown (Smelting Chief Mechanical Engineer) and C. W. McConnell (Accountant).

### III. Regulatory Agency Contacts

A good working relationship is maintained with Mr. Hans Paller, Massena Office, New York State Department of Environmental Conservation.

Mr. Gordon A. Yesser (Chief, Construction - Operations Division) has been the plant's contact in the Corps of Engineers Buffalo, N.Y. District Office. No personal contacts have been made with Corps' personnel.

### IV. Permits and Standards

Massena was issued a New York State Department of Environmental Conservation Permit to Construct a Waste Disposal System on July 14, 1971. Construction of the waste treatment plant eliminated Discharge 002 (See Attachment A) in May, 1972 by diverting the flow to outfall 001./ New York State does not require a permit for discharging untreated process water at Discharge 003.

A U.S. Army Corps of Engineers Permit Application #070-0x2-2-000293 has been filed with the Corps' Buffalo, N.Y. Distruct Office.

The latest copy of the Rules and Classifications and Standards of Quality and Purity for waters of New York State as well as a copy of the criteria and regulations governing thermal discharges are available in the Environmental Engineering Division files. 748

A copy of the Rules and Regulations regarding solid waste disposal has been ordered from the New York State Department of Environmental Conservation.

### V. Treatment Facilities

There were no industrial wastewater treatment facilities in operation at Massena in 1971.

All of the wastewater was collected in the plant storm sewer system and discharged to the Grasse River through two outfalls (001 and 002) and to the old power canal through one outfall (003). See Attachment A - Sewer Outfall Locations, Massena, N.Y.

Outfall 001 handles wastewater and storm water from the fabricating plant area and the effluent from the biological oxidation pond.

The biological oxidation pond treats all of the sanitary wastewater from Massena Operations. The sanitary waste flow rate averages 1.8 MGD. The effluent from the oxidation pond is chlorinated (31 lb./day) to maintain a chlorine residual of 0.65 mg/l.

The potroom and carbon plant scrubber water had been discharged, untreated, through outfall 002. This outfall was eliminated in May, 1972, with the startup of the new wastewater treatment facility. This flow is now intercepted, neutralized, and pumped to settling ponds which will overflow into outfall 001. A detailed description of the treatment process can be found in the next section.

Outfall 003 accepts only storm water runoff from the smelting plant area.

### VI. Process Description

The wastewater treatment facilities were built in 1971-72 to meet New York State water standards. These facilities provide treatment of wastewater from the three existing N-40 Potlines and the carbon baking furnace scrubbers. The treatment scheme is designed to remove fluorides, suspended matter and phenols.

The waste and storm water flow of 8000 to 13,000 GPM is intercepted in an existing 60" concrete sewer and directed to two below ground concrete neutralization tanks. These tanks are 16' x 16' x 9' (17,200 gal.) and are operated in series with a normal retention time of 2.15 minutes each at 8000 GPM flow rate. The untreated waste contains approximately 60 ppm fluoride, 100 ppm suspended solids, 2 ppm phenol and has a pH of 3.5. Pebble quicklime, stored in an 80-ton capacity steel hopper (3200 ft.3) is gravity fed to a 2000#/hr. capacity Wallace and Tiernan volumetric feeder and lime slaker. The resulting calcium hydroxide is fed to the first neutralization tank under automatic pH control. The weekly lime feed rate has been about 20 tons.

There is a 1000#/hr. Wallace and Tiernan feeder and slaker installed to feed lime when the prime feeder requires maintenance. The quicklime (\$28.90/ton) is delivered by Dallock Corporation once a week in bulk trucks (40,000 lbs.) equipped with blowers. The lime treated wastewater is completely mixed in each tank by a 10 HP Lightnin Mixer.

Then the wastes flows to a 9' x 16' x 9' (10,000 gal.) wet pit with a normal retention time of 1.25 minutes. There are three transfer pumps installed in the wet, pit which lift the water to a primary settling lagoon located about 2800' from the treatment building and about 65' higher than the water level at the wet pit. The pumps are variable capacity vertical turbine Peerless pumps (2500 GPM to 4350 GPM). The pumping rate is regulated by progressive addition of air into the suction bell. The pumps are started and stopped automatically by a level control in the wet pit. The pipeline to the primary settling lagoon is 24" diameter Johns-Manville Flextran. The flow is maintained at a velocity of 6.4 ft./sec. at 8,000 GPM to prevent deposition of solids in the force main. The primary settling lagoon is 100' x 800' x 8' (4,600,000 gal.) and has a retention time of 9.6 hours.

The effluent from the primary lagoon is gravity fed through an open aeration ditch to a 60-acre settling lagoon. This lagoon holds 78,000,000 gallons and has a retention time of 6.8 days. The pH of the water is maintained in the range of 7.5 to 3.5 to enhance the biological oxidation of phenol. The outfall structure for the 60-acre lagoon has a building over it and is equipped with a weir, a flow indicating and recording instrument, and an automatic composite sampler.

The effluent from the lagoon should contain not more than 18 ppm of fluoride and 20 ppb of phenol. This water is diluted with approximately 10,000 GPM of uncontaminated wastewater from the ingot and fabricating plants. Thus the fluorides will be below the specified level of 2.4 ppm and the phenol below 5 ppb in the Grasse River.

An operator checks on the plant operation once each shift.

#### VII. Receiving Water

The waste process water is discharged to the Grasse River which has an average flow of 250 CFS and a minimum 10-year low flow of 134 CFS.

The Grasse River, designated Class C by the State of New York, empties into the St. Lawrence River about 5 miles from Massena.

# VIII. Effluent Analyses

No routine wastewater samples are collected at the present time. However, Mr. Hans Paller, Massena Office, New York State Department of Environmental Conservation has proposed sampling and analyses requirements for the wastewater treatment system starting this

summer. See Attachment B - Smelting Plant Wastewater Treatment Facilities.

#### IX. Drawings

Prints showing the storm sewer system, sources of wastewater, and the new waste treatment facilities are in Environmental Engineering Division files.

#### X. Solid Waste Disposal

The solid and liquid wastes disposed of by the plant include paper, wood, paperboard, garbage, scrap wood reels, waste oil, oily sludge, and caustic sludge. Estimated 1971 volumes of the various wastes are tabulated below.

A. B.	Office and Lunch Room Refuse Dempster-Dumpster Boxes -	6,000 CY 43,000 CY	10
	paper, wood, misc. trash	45,000 C1	14
c.	Shop & Construction - Scrap lumber.	2,000 CY	3
D.	Wood reels	4.,000CY	7
E.	Sludge	1,000 CY	之
F.	Tires, wood floor block, oil filters, polyethylene scrap and other intermittent trash.	2,000 CY	3
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There are 125 Alcoa owned dumpster boxes located throughout the plant area. Most of these boxes are emptied daily by two dempster dumpster trucks.

Office and lunch room refuse is collected aily in a barbage truck manned by a driver and helper. A 700-gallon tank truck is in full-time use for oil waste disposal.

A 6000-gallon oil tanker with a driver and helper is used part time for pumping out mill pits and hauling the oil to the oil lagoon.

The waste oil is treated with calcium chloride in the tank trucks while on the way to the oil lagoon. This procedure aids emulsion breaking in the lagoon. The water in the main oil lagoon is circulated through spray nozzles to enhance evaporation. Oil is skimmed from the main oil lagoon and pumped to a small holding pond where it is picked up by Pierce Company at no cost to Alcoa.

This is the most economical way of disposing of the waste oil at the present time. However, if the oil scavenger would start to charge for picking up the waste oil then disposal by burning in the boilers would be recommended.

All of the trash generated at Massena Operations is disposed of on Company property at four landfill areas. See Attachment C - Landfill areas.

The main dump area is designated as Landfill Area #1. This area is about 20 acres in size and receives garbage, scrap wood and miscellaneous trash. The estimated remaining life for this area is about 10 years.

Cinders and clean fill are stockpiled for covering the trash by a company-owned tractor. Wood reels are stockpiled in a separate area of this landfill and are picked up by a scavenger or burned with approval of the local Health Department.

Landfill Area #2 is used only for bag collector refuse and other solid waste.

Landfill Area #3 is limited to dust from the skim room.

Landfill Area #4 is used only for disposal of oily and caustic— sludge. This area has been inspected by Mr. Hans Paller of the local Health Department and is considered satisfactory for this purpose.

In 1971 scrap and reclamation sales amounted to \$51,000. See Attachment C - Scrap Metals and Reclamation.

#### XI. Capital and Operating Costs - Solid Wastes

#### A. Total Capital Costs to Date:

1.	Garbage Truck	\$14,521	
2.	Oil Truck (6000 gal.)	4,871	
3.	Tank Truck (700 Gal.)	3,500	·
4.	Dempster Dumpster (2)	18,534	
5.	Dempster Dumpster Boxes (125) -	17,453	
6.	Catapiller Tractor	30,588	
	TOTAL CAPITAL COSTS		\$89,467

#### B. Operating Expenses

#### 1. Decreciation

a.	Garbage Truck	\$ 2,904	
b.	Oil Truck	974	
c.	Tank Truck	420	
d.	Dempster Dumpsters (2)	3,707	
e.	Dempster Dumpster Boxes	-0-	
	(fully depreciated)	·	
f.	Catapiller Tractor	3,059	
	TOTAL DEPRECIATION	<del></del>	\$11.064

#### 2. Labor Charges

a.	Garbage Truck Driver & Helper	\$24,669
b.	Oil Truck Driver & Helper	24,669
C.	Tank Truck Driver	1,092
d.	Dempster Dumpster Drivers (2)	24,669
e.	Tractor Operator	4,369
f.	Hauling Fill to Dump	1,283

Hauling Misc. Junk to Dump Supervisor	\$ 1,283
TOTAL LABOR CHARGES	2,290 \$ 84,324

#### 3. Repair & Maintenance

a.	Garbage Truck	\$ 1,958	
b.	Oil Truck	1,176	
c.	Tank Truck	93	
d.	Dempster Dumpsters (2)	8,071	
e.	Dempster Dumpster Boxes	337	
f.		874	
g.	Hauling Fill to Dump	257	
h.	Hauling Misc. Junk	257	
	TOTAL REPAIR & MAINTENANCE		\$ 13,023
TOT	AL OPERATING EXPENSES - 1971		\$108,411

TOTAL CUBIC YARDS OF UNCOMPACTED TRASH - 1971 = 58,000

TOTAL COST PER CUBIC YARD OF TRASH - 1971 = \$1.87/CY or \$187/100 =

Total operating expenses less credit for scrap and reclamation sales = \$57,411.

Cost cubic yard of trash after taking credit for scrap sales = \$1.00/CY or \$100/100 CY.

#### XII. Problem Areas

A. There are combined storm, process water and sanitary sewers in Building l area. As a result of this situation, some oily wastewater gets pumped to the sanitary waste lagoon.

A proposal has been made to separate these sewers.

- B. At the present time, the cooling water effluent from the ingot and fabricating plants discharges directly to the Grasse River. However, in the future these wastewaters will be pumped to the settling lagoons where any floating oil can be removed.
- C. It has been brought to our attention at Vancouver that leachate from the pot lining storage area contains cyanide in addition to fluoride. Since the leachate at Massena is directed to the new wastewater treatment facilities, the presence of cyanide may harm the phenol reduction process in the 60-acre lagoon by killing bacteria in the water.

#### XIII. Recommendations

A. Make an indepth study of oil storage areas and any other potential sources of accidental spills with a view toward developing a Pollution Incident Prevention report similar to

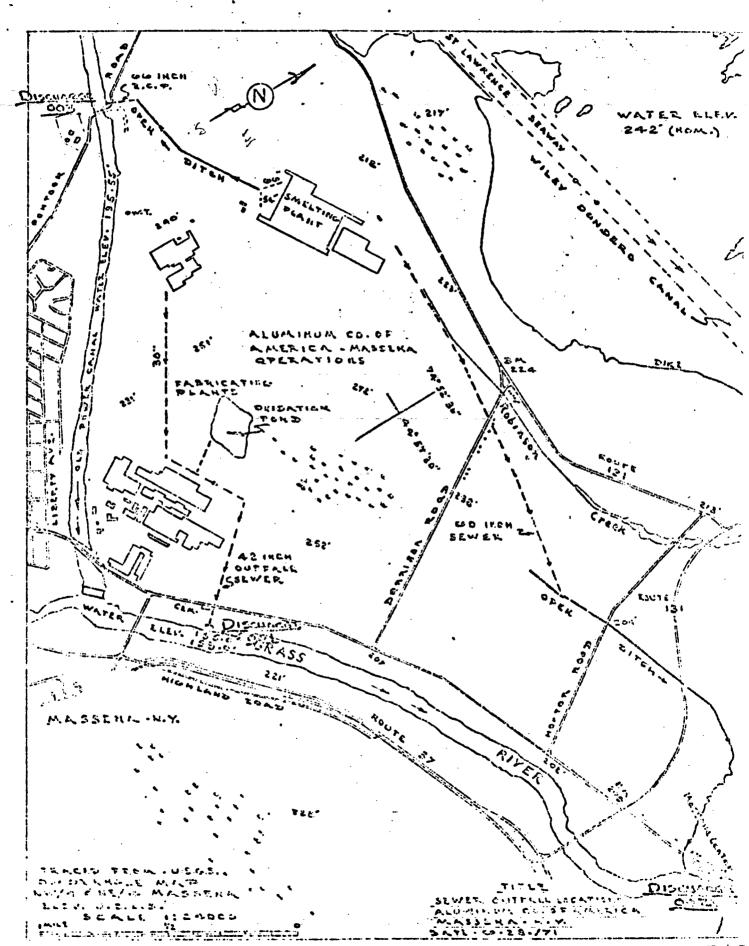
the type required by the State of Pennsylvania. See Attachment D.

- B. Investigate feasibility of compacting trash to reduce volume and number of trips to the dump area. It may be feasible to replace some dumpster boxes with a compactor as the boxes wear out.
- C. Provide for more covering material at the main dump area.
- D. Collect leachate samples from the pot lining storage area and determine cyanide concentration.
- E. Prepare an Operating and Preventive Maintenance Manual for the waste treatment plant. Pittsburgh Environmental Engineering would prepare a section on the theory of the treatment process for fluoride removal and phenol oxidation.

F. M. SITTIG

TMS:bsd

JUNE 12, 1972



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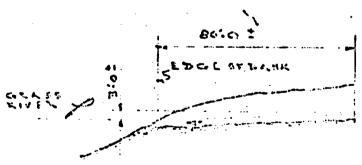
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# ALCOA MASSENA OPERATIONS DESCRIPTION OF SOLID WASTE DISPOSAL FACILITY

P. F. WOODWARD ENVIRONMENTAL CONTROL SUPERINTENDENT

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	<ol> <li>Geotechnical Investigation and Ground Water Monitoring Installation Proposed Oil Waste Landfill Project Report No. CD33-2-10-79</li> </ol>	
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	Meteorological Data: Year 1979	
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	B-105209-JM - Topographic Map Showing Alcoa Massena Waste Disposal Sites (Revised 80/04/08)	
	A-107870-JM - Proposed Oil Waste Landfill Site, Site Topographic Map	
	Section A-A (Dwg. No. A-107870-JM) Soil Profile - Proposed Oil Waste Landfill Site	

#### I. METHODS OF DISPOSAL

The Massena Operations of the Aluminum Company of America located in the Town of Massena, County of St. Lawrence, (see attached print-Drawing B-086592-JM), produces primary aluminum (S1C 3334), aluminum ingot (S1C 3361), aluminum wire, rod and bar (S1C 3354 and 3355), wire and insulated aluminum conductor (S1C 3357), and aluminum conductor accessories (S1C 3361 and 3644). Most waste materials either associated with or produced by the manufacture of these products are recycled, sold or disposed of on Alcoa property contiguous to the plant site. The primary method of disposal is landfill.

The disposal areas are:

Area	No.	- 1	Main Landfill
*Area	No.	2 ·	Soluble Oil Lagoon
**Area	No.	3A	Heavy Oil and Sludge
Area	No.	4	Potlining Pile (old)
Area	No.	5	Potlining Pile (new)

These areas are located on the following drawings in the Appendix:

B-086592-JM - Alcoa Massena Property Superimposed on New York State Quadrangle Maps

B-105209-JM - Topographic Map showing Alcoa Massena Waste Disposal Sites

\*Discontinued use of waste lub oil lagoon 1980 April 18. \*\*Closed Area No. 3 1979 November 13

Wastes requiring special handling are disposed of as follows:

Waste lubricating oils are accumulated in tanks. An as yet unknown amount will be used as fuel for an aluminum chip dryer and steam boilers. Any excess will be disposed of through either approved commercial reprocessors or waste disposal facilities. Water mixtures of soluble oil are held in an evaporation pond.

Used capacitors, PCB-contaminated solids, PCB-contaminated mineral oil and phosphate ester hydraulic fluid are stored in a facility that complies with EPA regulations. The solids will be disposed of in approved commercial disposal facility. Liquids containing 500 ppm or more of PCB's will be incinerated in an approved incinerator. Liquids containing less than 500 ppm PCB's will be burned on site in a high energy boiler equipped for proportioning of the fuels and for monitoring CO and excess oxygen.

As of 1980 April 28 sludge from solvent degreasers and materials containing asbestos are collected in 55-gallon drums. When a drum is filled, it is closed and sent to a storage area to be held for disposal in an off-site approved facility.

Sludge consisting of calcium fluoride, excess lime and carbon particles accumulate in a two-acre wastewater treatment lagoon at the approximate rate of two tons per day. The lagoon was dredged during 1977. The sludge was deposited in containment areas in the vicinity of the lagoon with provision for dewatering. The same procedure will be followed in the future.

#### II. OPERATION OF DISPOSAL FACILITIES

#### Area No. 1 - Main Landfill

All solid waste that does not require special handling is disposed of in the Area No. 1 landfill dump. Reusable lumber and wooden reels are accumulated in one area and held for sale. Once a year, all clean lumber on hand is burned under permit from the DEC.

Miscellaneous waste (see Table 1 in Appendix for description) is accumulated in Dempster-Dumpster boxes that are located in all areas of the Operations. Office and lunch room waste, with few exceptions, are contained in plastic bags. The full boxes are transferred to the dump daily five days a week. Some miscellaneous waste is collected in open boxes designed for handling with fork trucks. The waste in these boxes is loaded into dump trucks for transfer to the dump. Scrap bricks from production facilities and earth and concrete from construction projects are hauled to the dump in dump trucks.

Once a week the active area of the dump is leveled with a bulldozer. Clean fill is added if necessary, but generally there is enough siliceous material in the waste to form a solid cover.

The land in this area is predominately grey clay. Percolation tests of the soil in this area made in 1960 resulted in zero percolation. There are no wells in the area because all water for plant usage comes from Lake St. Lawrence. The nearest known private wells are along the Dennison Road, approximately 6000 feet away in a northerly direction.

#### Area No. 2 - Oil Lagoons

A lagoon adjacent to Area No. 1 landfill is utilized for disposal of used soluble oil. The lagoon has a surface area of 125,000 square feet to promote evaporation and has a capacity in excess of 5,000,000 gallons.

Approximately 600,000 gallons of soluble oil and water used in rolling mills and saws are discarded annually. Spent caustic and acid solutions from aluminum etching facilities and wax emulsions are also disposed of in this lagoon. These solutions amount to approximately 500,000 gallons per year. These volumes plus rainfall exceed evaporation. To prevent overflows, the excess water is pumped into a nearby 60 acre polishing lagoon that is part of a wastewater treatment facility for which there is a NPDES discharge permit.

The concentration of oil and grease in the wastewater discharge is well below the permit limit for daily and monthly averages.

#### Area No. 3 - Landfill

A twenty-five foot deep ravine in the vicinity of Dennison Road was used for disposal of heavy oils, oily waste, and sludges. The 800 foot ravine was formed by material dredged from the Grasse River. It is screened from view from Dennison Road by a grove of trees and is approximately 2500 feet from the nearest residence, which is to the north on Dennison Road.

Most of the materials disposed of in the ravine come from the reservoirs associated with wire drawing machines and rolling mills. These reservoirs are pumped down and cleaned out, usually twice a year. The residue in the bottom is loaded into steel drums and dumped into the ravine. Oily waste from cleanup of the mills is also disposed of in the ravine. The drums of waste are covered with clean earth from the banks of the ravine once a month except during the winter months. Drums dumped during the winter are covered as soon as weather permits.

Approximately 10,000 gallons of oily sludges are discarded annually. The oil component is soluble oil, mineral oil and polybutenes. The solids are aluminum and steel fines, waxes, dirt and absorbent.

This area was closed effective 1979 November 13 and a new area opened within the plant fence. During August of 1979 Atlantic Testing Laboratories was retained to conduct subsurface soil investigations and to install monitoring wells at the old and new sites. The following section outlines these activities and operating and monitoring procedures to be followed:

A. Closure of Area No. 3: Heavy Oil and Sludge

# Subsurface Investigation

During August of 1979 Atlanctic Testing Laboratories conducted a subsurface investigation of the soil in the area and installed a ground water monitoring well at the northeast end of the site. See attached Report No. CD33-1-8-79.

# Closure Procedure

The ravine was formed by two parallel deposits of dredge spoils from the Grasse River. Soil from these deposits, in general, a silty sand with varying proportions of clay and gravel was used to close the site. Grading operations proceeded south to north. Before filling of the ravine was completed, oil and water was pumped into a tank truck and transferred to Area No. 2, Waste Lub Oil Lagoon. After filling was completed, a 12-inch diameter stand pipe 20 feet long was installed in the north end of the ravine. The lower end of the pipe was perforated over a distance of about a foot.

This work was done during November of 1979. Final grading was not completed because of unfavorable weather.

During May of 1980 the site will be graded to provide good surface drainage away from the landfill. The site then will be mulched and seeded. The cover of clean soil over the waste material will range from ten to fifteen feet.

#### Monitoring

Sample monitor well annually and analyze for oils and greases, PCBs, Ca, Mg, Na, NH $_4$ , SO $_4$ , CO $_3$ ,/HCO $_3$  and No $_3$ .

Sample monitor well quarterly and analyze for oils and greases and PCBs until trends are established. Program will be revised accordingly.

Check stand pipe quarterly for oil until assured that there is no migration of oil in the site.

B. Opening of Area 3A: Heavy Oil and Sludge

#### Geotechnical Investigation

Atlantic Testing Laboratory was retained to select a suitable site within the fenced area of Massena Operations. See attached Report No. CD33-2-10-79 and Drawing No. B-105209-JM for location of site and results of the investigation. Included in the report are subsurface data and details of the four ground water monitoring wells that were installed.

C. Operating Plan for Area No. 3A

#### Site Plan

See Drawing No. A-107870-JM for layout of site.

Pit I was completed November of 1979. It is 40' x 45' in plan and 13' deep. The bottom elevation at 263' is approximately 19' above the permanent ground water table.

The pits will be dug in numerical sequence. Not shown on the drawing is a dewatering trench located in the expansion area across from Pit I. The depth of this trench is limited to depth of soil of approximately  $1 \times 10^{-5}$  centimeters per second permeability.

# Operating Plan

The waste will be covered twice a year, once during May and again in October or November depending upon the weather. Before covering, the pit will be dewatered. A bulldozer will be used for covering and compacting. Approximately a foot of earth cover will be placed over the open, crushed drums.

Two or more lifts will be made before final closure. Approximately three feet of glacial till (hard pan) from the pit being opened will be used for capping. The closed pit sites will be graded with top soil and seeded.

The projected time schedule for pit life follows:

Pit No.	Eff. Vol., Cu. Yds.	Operable Period	Closure Date
Pit I	900	79/11/15-81/07/31	Approximately one week
Pit II	900 - 1000	81/08/01-83/06/30	will be required for
Pit III	900 - 1000	83/07/01-85/06/30	opening a new pit and
Pit IV	900 - 1000	85/07/01-87/06/30	closing old pit between
			operable periods.

# Description of Waste

The following substances are used as lubricants or as additives to lubricants:

Mineral Oil Polybutene Lard Oil Vegetable Oil	Cetyl Alcohol Petroleum Sulfonate (Emulsifier) Amines, (Corrosion Inhibitor)
Butyl Stearate Graphite Oleic Acid	Metallic Salts (Corrosion Inhibitor) Of Fatty Acid Kerosene Varnolene Grease

#### Monitoring

Sample monitor wells annually and analyze for oils and greases, PCBs, Ca, Mg, Na, NH $_4$ , SO $_4$ , CO $_3$ /HCO $_3$  and No $_3$ .

Sample monitor wells quarterly and analyze for oils and greases and PCBs until trends are established. Program will be revised accordingly.

#### Areas No. 4 and 5

Approximately 2900 tons of used potlinings are disposed of annually in outdoor piles. In 1976 October covering of the then existing pile (Area No. 4) with one foot of compacted earth was begun and a new pile was started at Area No. 5. Covering of the old pile was completed, including seeding and mulching, during July of 1977.

The new pile is located near the top of a wooded ridge in a two-acre site with extensive adjacent land for dispersion of leachate.

#### III. REQUEST FOR VARIANCES

Variances are being requested from certain requirements of Part 360 that would increase disposal costs significantly without benefit to the safety, health or environment of the people of the State of New York.

No variance is requested from Section 360.8 (a) because of the belief that the intent of all requirements is being met.

Variance from the following requirements is requested for the areas specified.

# Section 360.8 (b) (1) (vii) (a) through (e) Areas No.1 and No.3

Area No. 1: Compliance with requirements (a), (b), (c) and (d) would require a full time operator. No adverse effects with respect to vectors, dust or odors have resulted from the existing practice of leveling the waste deposited at least once a week because of the physical characteristics of the wastes and because the wastes predominately are inert chemically and biologically. Most loose papers and the small amount of putrescible waste (see description of miscellaneous waste in Table I of the Appendix) present generally are contained in plastic bags. Evidence of the small quantity of putrescible waste is the limited number of sea gulls observed at the site.

A covering of six inches over each day's waste spread in two-foot layers would reduce the life of the site twentyfive percent. Intermediate covering would further reduce the life of the site. Furthermore, Alcoa has no plans for development of this area because of its location between production centers and because of utilization of the adjacent land for disposal of sanitary wastes, oils and wastewater treatment.

Existing practice requires sufficient cover to provide for the safety of personnel and equipment handling solid waste.

Area No. 3: The disposal of heavy oils and sludges in 55 gallon drums requires special handling that does not conform entirely to these requirements, but the existing practice is consistent with the intent of the requirements. Utilizing this ravine as a landfill serves to level the area and thereby reclaim it for future use of a higher value.

#### Section 360.8 (b)(1)(xi) Area No. 1

Area No. 1: Permission is requested to continue to dispose of wastes containing asbestos in Area No. 1 as described in Section II of this report. This procedure contains the asbestos fibers and prevents them from becoming air borne and from entering ground or surface water. In this condition, asbestos is a non-hazardous industrial waste.

Section 360.8 (b)(3) Industrial Waste Disposal Facilities
Areas No. 2, No. 4 and No. 5

Area No. 2; The oils and caustic and acid solutions disposed of in the oil lagoons are industrial wastes. The methods used for disposal of these substances protect the environment from harm and provide for reclamation of the reusable oils. Specific cover and compaction requirements for a sanitary landfill as stated in Section 360.8 (b)(1)(vii) (a) through (e) are not compatible with this operation; therefore, a variance is requested from these requirements.

Areas No. 4 and No. 5: Area No. 4 was closed in 1977 as a site for the storage of dug potlinings in the manner described in Section II of this report. The seeded earth cover will be maintained to assure good drainage and the development of a continuous sod. No intermediate covering is planned for the new site. As

indicated in Section II of this report, this site is isolated with a large wooded land area adjacent to it. Dug potlining when exposed to the elements is free of dust, vectors and obnoxious odors. Covering during the active life of this site would serve no useful purpose in this isolated area and would retard weathering and disintegration of the chunks of potlining.

#### IV APPENDIX

#### TABLE I

# DESCRIPTION AND ESTIMATED VOLUME OF WASTE DISPOSED OF ANNUALLY IN AREA NO. 1 LANDFILL

Loa	ds/Week		Description	Cubic Yards Per Year Compacted
240	3-yard	Boxes	* Miscellaneous Waste	18,700
14	8-yard	Dump Trucks	* Miscellaneous Waste	3,900
11	8-yard	Dump Trucks	Scrap bricks	3,400
70	Wooden	Ree1s	Total number scrapped per week	<b>-</b>
1	3-yard	Box	Foundry Sand	120
**.*			Demolition and Construction Debris	No estimate
•		•	Baghouse dust/handling of skim from molten aluminum	20
1	3-yard	Box	Marinite and asbestos scrap	60
1	3-yard	Вох	Aluminum fines	60

## \* Miscellaneous waste consists of:

85% paper and wood products (packaging materials), wood pallets, wood chips and sawdust, and lunch area and office refuse that consists of paper towels and containers made from paper, steel and glass, and food scraps estimated at less than 1% of volume.

15% other materials such as: Steel (banding, drums, broken parts, turnings and cuttings), slag from cast iron melting furnaces, floor sweepings, carbon dust, polyethylene (sheet, bags, reels), fabric bags from dust collectors (orlon and cotton).

ROM P. F. WOODWARD

MASSENA OPERATIONS

MR. R. LEE BYERS

PITTSBURGH OFFICE



1981 June 12

#### RE: WASTE OIL AS A HAZARDOUS WASTE

The following substances are used at Massena as lubricants or as additives to lubricants:

Mineral Oil
Polybutene
Lard Oil
Vegetable Oil
Butyl Stearate

Cetyl Alcohol
Petroleum Sulfonate (Emulsifier)

Amines, (Corrosion Inhibitor)

Metallic Salts of Fatty Acid (Corrosion Inhibitor)

Graphite Kerosene
Oleic Acid Varnolene
Grease

Except for graphite, cetyl-alcohol and grease, these substances contribute to the waste lub oils that we are accumulating in a reservoir. Our intent is to burn these waste oils as fuel for the chip dryer and any surplus to be burned in the boiler equipped to burn PCB-contaminated mineral oil.

Approximately 12,000 gallons of non-PCB-contaminated waste oils are generated per month. The breakdown of the types of oil is as follows:

Motor oil from automotive shops	15%
Miscellaneous lub oil (mineral oil)	15%
Drawing oil (Polybutene)	30%
Varnolene	40%

The DEC will approve our request to burn these oils when we provide analysis of the oil mixture for metallic content and percent chlorine. They are concerned about heavy metals, but we do not think this will be a problem. They will accept chlorine at less than 0.5%, so this should not be a problem either.

The concern your letter of 1981 June 09 raises is that the proposed EPA regulations will make the burning of waste oils a problem. We will appreciate being kept posted on this development.

#### P. F. WOODWARD

PFW/lcq

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Route copy: -R.-H. Feild/R. K. Brown - 60

1982 June 25

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# RE: SURGE CAPACITOR IDENTIFICATION FOR MASSENA POTLINE 6 RECTIFIERS

This memorandum outlines the current status of the Transformer Secondary Surge, Phase to Phase Surge, and Diode Snubber Capacitors installed on the Potline 6 rectifiers.

#### I SURGE CAPACITORS IN SERVICE

	Description	No. Per Rectifier	Total in Service
<b>A</b> .	Transformer Secondary Surge Capacitor Capacitor5 mfd, 2000 VDC, GE No. 28F5152FC	12	120
В.	Phase to Phase Surge Capacitors Capacitor - 10 mfd, 1500 VDC or 700 VAC 60 Hz, GE No. 28F5146FC, West. Style 1589A93H39	12	120
C.	Diode Snubber Capacitor Capacitor5 mfd, 2500 VDC, GE No. 28F5226	72	720

# II CURRENT WESTINGHOUSE NON-PCB REPLACEMENTS

- A. Transformer Secondary Surge Capacitor Capacitor .5 mfd, 2500 VDC, West. Style 1815A71H54
- B. Phase to Phase Surge Capacitors
  Capacitor 10 mfd, 1500 VDC,
  West. Style 1815A70H39
- C. Diode Snubber Capacitor
  Capacitor .5 mfd, 2000 VDC,
  West. Style 1815A73H18

# III SPARE CAPACITORS ON HAND AT MASSENA

- A. Transformer Secondary Surge Capacitor Capacitor .5 mfd, 2500 VDC, GE No. 23F1253
- B. Phase to Phase Surge Capacitor Capacitor 10 mfd, 1500 VDC, GE No. 28F5146FC, West. Style 1589A93H39

Quantity 10

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### III SPARE CAPACITORS ON HAND AT MASSENA - Continued

Quantity

C. Diode Snubber Capacitor
Capacitor - .5 mfd, 2500 VDC,
GE No. 28F5054

The present spare capacitors listed in Part III are physcially and electrically acceptable as Transformer Secondary Surge, Phase to Phase surge, and Diode Snubber Capacitors on the Potline 6 rectifiers. As future demand requires, Westinghouse Non-PCB replacements as listed in Part II will be purchased.

If there are any questions, please advise.

K. P. BELLOR

KPB:cdo

xc: J. M. Shaw

J. M. Sweeney - 319